

## RAW SEQUENCE LISTING

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Application Serial Number: 10/561,107  
Source: IFWP  
Date Processed by STIC: 2/1/07

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IFWP

## RAW SEQUENCE LISTING

DATE: 02/01/2007

PATENT APPLICATION: US/10/561,107

TIME: 12:18:39

Input Set : A:\BDM51792.APP

Output Set: N:\CRF4\02012007\J561107.raw

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3 <110> APPLICANT: MOUILLAC, BERNARD
4     SEN, TUHNADRI
5     BANERES, JEAN-LOUIS
7 <120> TITLE OF INVENTION: A METHOD OF PRODUCING A RECOMBINANT PROTEIN AND A
8     PROTEIN PRODUCED BY THE METHOD
10 <130> FILE REFERENCE: BDM-05-1792
12 <140> CURRENT APPLICATION NUMBER: 10/561,107
13 <141> CURRENT FILING DATE: 2005-12-15
15 <150> PRIOR APPLICATION NUMBER: PCT/FR04/01538
16 <151> PRIOR FILING DATE: 2004-06-18
18 <150> PRIOR APPLICATION NUMBER: FR 0307411
19 <151> PRIOR FILING DATE: 2003-06-19
21 <160> NUMBER OF SEQ ID NOS: 16
23 <170> SOFTWARE: PatentIn Ver. 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 288
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
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32 1      5      10      15
34 Tyr Pro Glu Tyr Leu Ile Asn Leu Val Gln Gly Gln Leu Gln Thr Arg
35      20      25      30
37 Gln Ala Ser Ser Ile Tyr Asp Asp Ser Tyr Leu Gly Tyr Ser Val Ala
38      35      40      45
40 Val Gly Glu Phe Ser Gly Asp Asp Thr Glu Asp Phe Val Ala Gly Val
41      50      55      60
43 Pro Lys Gly Asn Leu Thr Tyr Gly Tyr Val Thr Ile Leu Asn Gly Ser
44      65      70      75      80
46 Asp Ile Arg Ser Leu Tyr Asn Phe Ser Gly Glu Gln Met Ala Ser Tyr
47      85      90      95
49 Phe Gly Tyr Ala Val Ala Ala Thr Asp Val Asn Gly Asp Gly Leu Asp
50      100     105     110
52 Asp Leu Leu Val Gly Ala Pro Leu Leu Met Asp Arg Thr Pro Asp Gly
53      115     120     125
55 Arg Pro Gln Glu Val Gly Arg Val Tyr Val Tyr Leu Gln His Pro Ala
56      130     135     140
58 Gly Ile Glu Pro Thr Pro Thr Leu Thr Leu Thr Gly His Asp Glu Phe
59 145     150     155     160
61 Gly Arg Phe Gly Ser Ser Leu Thr Pro Leu Gly Asp Leu Asp Gln Asp
62      165     170     175
64 Gly Tyr Asn Asp Val Ala Ile Gly Ala Pro Phe Gly Gly Glu Thr Gln
65      180     185     190

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67 Gln Gly Val Val Phe Val Phe Pro Gly Gly Pro Gly Gly Leu Gly Ser
68      195                      200                      205
70 Lys Pro Ser Gln Val Leu Gln Pro Leu Trp Ala Ala Ser His Thr Pro
71      210                      215                      220
73 Asp Phe Phe Gly Ser Ala Leu Arg Gly Gly Arg Asp Leu Asp Gly Asn
74 225                      230                      235                      240
76 Gly Tyr Pro Asp Leu Ile Val Gly Ser Phe Gly Val Asp Lys Ala Val
77      245                      250                      255
79 Val Tyr Arg Gly Arg Pro Ile Val Ser Ala Ser Ala Ser Leu Thr Ile
80      260                      265                      270
82 Phe Pro Ala Met Phe Asn Pro Glu Glu Arg Ser Cys Ser Leu Glu Gly
83      275                      280                      285
86 <210> SEQ ID NO: 2
87 <211> LENGTH: 286
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 2
92 Met Gly Gln Leu Ile Ser Asp Gln Val Ala Glu Ile Val Ser Lys Tyr
93 1      5      10      15
95 Asp Pro Asn Val Tyr Ser Ile Lys Tyr Asn Asn Gln Leu Ala Thr Arg
96      20      25      30
98 Thr Ala Gln Ala Ile Phe Asp Asp Ser Tyr Leu Gly Tyr Ser Val Ala
99      35      40      45
101 Val Gly Asp Phe Asn Gly Asp Gly Ile Asp Asp Phe Val Ser Gly Val
102      50      55      60
104 Pro Arg Ala Ala Arg Thr Leu Gly Met Val Tyr Ile Tyr Asp Gly Lys
105 65      70      75      80
107 Asn Met Ser Ser Leu Tyr Asn Phe Thr Gly Glu Gln Met Ala Ala Tyr
108      85      90      95
110 Phe Gly Phe Ser Val Ala Ala Thr Asp Ile Asn Gly Asp Asp Tyr Ala
111      100      105      110
113 Asp Val Phe Ile Gly Ala Pro Leu Phe Met Asp Arg Gly Ser Asp Gly
114      115      120      125
116 Lys Leu Gln Glu Val Gly Gln Val Ser Val Ser Leu Gln Arg Ala Ser
117      130      135      140
119 Gly Asp Phe Gln Thr Thr Lys Leu Asn Gly Phe Glu Val Phe Ala Arg
120 145      150      155      160
122 Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp Gln Asp Gly Phe
123      165      170      175
125 Asn Asp Ile Ala Ile Ala Ala Pro Tyr Gly Gly Glu Asp Lys Lys Gly
126      180      185      190
128 Ile Val Tyr Ile Phe Asn Gly Arg Ser Thr Gly Leu Asn Ala Val Pro
129      195      200      205
131 Ser Gln Ile Leu Glu Gly Gln Trp Ala Ala Arg Ser Met Pro Pro Ser
132      210      215      220
134 Phe Gly Tyr Ser Met Lys Gly Ala Thr Asp Ile Asp Lys Asn Gly Tyr
135 225      230      235      240
137 Pro Asp Leu Ile Val Gly Ala Phe Gly Val Asp Arg Ala Ile Leu Tyr
138      245      250      255

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140 Arg Ala Arg Pro Val Ile Thr Val Asn Ala Gly Leu Glu Val Tyr Pro
141           260           265           270
143 Ser Ile Leu Asn Gln Asp Asn Lys Thr Cys Ser Leu Pro Gly
144           275           280           285
147 <210> SEQ ID NO: 3
148 <211> LENGTH: 286
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 3
153 Met Gly Leu Leu Ala Gln Ala Pro Val Ala Asp Ile Phe Ser Ser Tyr
154   1           5           10           15
156 Arg Pro Gly Ile Leu Leu Trp His Val Ser Ser Gln Ser Leu Ser Phe
157           20           25           30
159 Asp Ser Ser Asn Pro Glu Tyr Phe Asp Gly Tyr Trp Gly Tyr Ser Val
160           35           40           45
162 Ala Val Gly Glu Phe Asp Gly Asp Leu Asn Thr Thr Glu Tyr Val Val
163           50           55           60
165 Gly Ala Pro Thr Trp Ser Trp Thr Leu Gly Ala Val Glu Ile Leu Asp
166   65           70           75           80
168 Ser Tyr Tyr Gln Arg Leu His Arg Leu Arg Ala Glu Gln Met Ala Ser
169           85           90           95
171 Tyr Phe Gly His Ser Val Ala Val Thr Asp Val Asn Gly Asp Gly Arg
172           100          105          110
174 His Asp Leu Leu Val Gly Ala Pro Leu Tyr Met Glu Ser Arg Ala Asp
175           115          120          125
177 Arg Lys Leu Ala Glu Val Gly Arg Val Tyr Leu Phe Leu Gln Pro Arg
178           130          135          140
180 Gly Pro His Ala Leu Gly Ala Pro Ser Leu Leu Leu Thr Gly Thr Gln
181 145           150           155           160
183 Leu Tyr Gly Arg Phe Gly Ser Ala Ile Ala Pro Leu Gly Asp Leu Asp
184           165          170          175
186 Arg Asp Gly Tyr Asn Asp Ile Ala Val Ala Ala Pro Tyr Gly Gly Pro
187           180          185          190
189 Ser Gly Arg Gly Gln Val Leu Val Phe Leu Gly Gln Ser Glu Gly Leu
190           195          200          205
192 Arg Ser Arg Pro Ser Gln Val Leu Asp Ser Pro Phe Pro Thr Gly Ser
193           210          215          220
195 Ala Phe Gly Phe Ser Leu Arg Gly Ala Val Asp Ile Asp Asp Asn Gly
196 225           230          235          240
198 Tyr Pro Asp Leu Ile Val Gly Ala Tyr Gly Ala Asn Gln Val Ala Val
199           245          250          255
201 Tyr Arg Ala Gln Pro Val Val Lys Ala Ser Val Gln Leu Leu Val Gln
202           260          265          270
204 Asp Ser Leu Asn Pro Ala Val Lys Ser Cys Val Leu Pro Gln
205           275          280          285
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 864
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapiens

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## 213 &lt;400&gt; SEQUENCE: 4

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214 atgggccaga tctgtctgc cactcaggag cagattgcag aatcttatta ccccgagtac 60
215 ctgatcaacc tgggttcagg gcagctgcag actcgccagg ccagttccat ctatgatgac 120
216 agctacctag gatactctgt ggctgttggg gaattcagtg gtgatgacac agaagacttt 180
217 gttgctgggtg tgcccaaagg gaacctcact tacggctatg tcaccatcct taatggctca 240
218 gacattcgat cctctacaa cttctcaggg gaacagatgg cctcctactt tggctatgca 300
219 gtggccgcca cagacgtcaa tggggacggg ctggatgact tgctgggtgg ggcacccctg 360
220 ctcattggatc ggaccctga cgggcggcct caggaggtgg gcagggtcta cgtctacctg 420
221 cagcaccag ccggcataga gccacgccc acccttacc tcactggcca tgatgagttt 480
222 ggccgatttg gcagctcctt gaccccccctg ggggacctgg accaggatgg ctacaatgat 540
223 gtggccatcg gggtccctt tgggtggggag acccagcagg gaggtagtgt tgtatttctt 600
224 gggggccag gagggctggg ctctaagcct tcccagggtc tgcagccct gtgggcagcc 660
225 agccacaccc cagacttctt tggctctgcc cttcgaggag gccgagacct ggatggcaat 720
226 ggatatcctg atctgattgt ggggtccttt ggtgtggaca aggctgtgg atacaggggc 780
227 cgcccatcg tgctcgctag tgctcctc accatcttcc ccgcatgtt caaccagag 840
228 gagcggagct gcagcttaga gggg                                     864

```

## 231 &lt;210&gt; SEQ ID NO: 5

232 &lt;211&gt; LENGTH: 858

233 &lt;212&gt; TYPE: DNA

234 &lt;213&gt; ORGANISM: Homo sapiens

## 236 &lt;400&gt; SEQUENCE: 5

```

237 atgggtcagc ttatttcgga tcaagtggca gaaatcgat cttaaatacga cccaatgtt 60
238 tacagcatca agtataataa ccaattagca actcgactg cacaagctat ttttgatgac 120
239 agctatttgg gttattctgt ggctgtcgga gatttcaatg gtgatggcat agatgacttt 180
240 gtttcaggag ttccaagagc agcaaggact ttgggaatgg tttatattta tgatgggaag 240
241 aacatgtcct ccttatacaa ttttactggc gagcagatgg ctgcatattt cggattttct 300
242 gtagctgcca ctgacattaa tggagatgat tatgcagatg tgtttatttg agcacctctc 360
243 ttcattggatc gtggctctga tggcaaactc caagaggtgg ggcagggtctc agtgtctcta 420
244 cagagagctt caggagactt ccagacgaca aagctgaatg gatttgaggt ctttgcacgg 480
245 tttggcagtg ccatagctcc tttgggagat ctggaccagg atggtttcaa tgatattgca 540
246 attgctgctc catatggggg tgaagataaa aaaggaattg tttatatctt caatggaaga 600
247 tcaacaggct tgaacgcagt cccatctcaa atccttgaag ggcagtgggc tgctcgaagc 660
248 atgccacca gctttggcta ttcaatgaaa ggagccacag atatagacaa aaatggatat 720
249 ccagacttaa ttgtaggagc ttttgggtga gatcgagcta tcttatacag ggccagacca 780
250 gttatcactg taaatgctgg tcttgaagtg taccctagca ttttaaataca agacaataaa 840
251 acctgctcac tgcttga                                     858

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## 254 &lt;210&gt; SEQ ID NO: 6

255 &lt;211&gt; LENGTH: 858

256 &lt;212&gt; TYPE: DNA

257 &lt;213&gt; ORGANISM: Homo sapiens

## 259 &lt;400&gt; SEQUENCE: 6

```

260 atgggtctcc tggccaggc tccagttgcg gatattttct cgagttaccg cccaggcatc 60
261 cttttgtggc acgtgtcctc ccagagcctc tcctttgact ccagcaacc agagtacttc 120
262 gacggctact ggggttactc ggtggccgtg ggcagttcg acggggatct caacactaca 180
263 gaatatgtcg tcggtgcccc cacttgagc tggacctgg gagcgttgg aattttggat 240
264 tctactacc agaggctgca tcggtgcgc gcagagcaga tggcgtcgta ttttgggcat 300
265 tcagtggctg tcaactgacg caacggggat gggaggcatg atctgctggg gggcgtcca 360
266 ctgtatatgg agagccgggc agaccgaaa ctggccgaag tggggcgtgt gtatttgttc 420
267 ctgcagccgc gaggccccc cgcgctgggt gccccagcc tcctgctgac tggcacacag 480

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268 ctctatgggc gattcggtc tgccatcgca cccctgggcg acctcgaccg ggatgggtac 540
269 aatgacattg cagtggctgc cccctacggg ggtcccagtg gccggggcca agtgctgggtg 600
270 ttcttgggtc agagtgaggg gctgaggtca cgtccctccc aggtcctgga cagcccccttc 660
271 cccacaggct ctgcctttgg cttctccctt cgagggtgcc tagacatcga tgacaacgga 720
272 taccagacc tgatcgtggg agcttacggg gcccaaccagg tggctgtgta cagagctcag 780
273 ccagtgggtga aggcctctgt ccagctactg gtgcaagatt cactgaatcc tgctgtgaag 840
274 agctgtgtcc tacctcag 858
277 <210> SEQ ID NO: 7
278 <211> LENGTH: 33
279 <212> TYPE: DNA
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
284     nucleotide sequence
286 <400> SEQUENCE: 7
287 gacccgggtg gtggtgggtg tgggtgggtg ggt 33
290 <210> SEQ ID NO: 8
291 <211> LENGTH: 10
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
297     peptide
299 <400> SEQUENCE: 8
300 Asp Pro Gly Gly Gly Gly Gly Gly Gly Gly
301 1 5 10
304 <210> SEQ ID NO: 9
305 <211> LENGTH: 4
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
311     peptide
313 <400> SEQUENCE: 9
314 Ile Glu Gly Arg
315 1
318 <210> SEQ ID NO: 10
319 <211> LENGTH: 4
320 <212> TYPE: PRT
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
325     peptide
327 <400> SEQUENCE: 10
328 Leu Val Pro Arg
329 1
332 <210> SEQ ID NO: 11
333 <211> LENGTH: 6
334 <212> TYPE: PRT

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/561,107

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